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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/775,086 01/31/01 LINDHOLM

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EXAMINER

VO,C

ART UNIT

PAPER NUMBER

2671

DATE MAILED:

04/11/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/775,086

Applicant(s)

Lindholm et al

Examiner

Cliff N. Vo

Group Art Unit

2671



☒ Responsive to communication(s) filed on Jan 31, 2001

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) 1-22 and 62-68 is/are pending in the application

Of the above, claim(s) 62-64 is/are withdrawn from consideration

☒ Claim(s) 1-22 is/are allowed.

☒ Claim(s) 65-68 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s) _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 2671

DETAILED ACTION

1. This is a divisional application of the Application Serial No. 09/456,102 filed on December 6, 2999.

2. This Office Action is in response to the Preliminary Amendment filed on January 31, 2001 which has been entered into the record of file.

Claim Objections

3. The application as originally filed had missed claim 33 (please see page 73). By rule, those claims 34-69 had been renumbered as claims 33-68, respectively.

It should be noticed that the Preliminary Amendment filed on January 31, 2001 canceled the original claims 23-32 and 34-62 (there is no claim 33 in the file as originally filed) which are renumbered as now claims 23-61. Claim 61, which is original claim 62, is independent claim. Thus, dependent claims 62-64 are objected to because they depend to a canceled claim. Accordingly, they are withdrawn from consideration.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

Art Unit: 2671

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

5. Claims 65-68 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Van Hook et al (U.S. Patent No. 6,166,748).

As per independent claim 65, Van Hook et al teach an interface for high performance low cost video game system comprising a step of processing vertex data, wherein the processing the vertex data including an inverse operation involving a W-attribute of the vertex data (col.27, lines 62-67 and col.29, lines 7-11), a step of outputting the processed vertex data (col.29, lines 29-32), a step of identifying a value of the inverse operation involving the W-attribute of the vertex data (Fig.13B, col.29, lines 7-32) and a step of clamping the value of the inverse operation if the value of the inverse operation meets predetermined criteria (col.51, line 60 through col.52, line 13).

As per dependent claim 66, Van Hook et al further teach wherein the criteria includes the value of the inverse operation being greater than a predetermined amount (col.29, lines 7-32).

As per dependent claims 67-68, Van Hook et al further teach the claimed features at col.51, line 60 through col.52, line 13).

Allowable Subject Matter

6. Claims 1-22 are allowed over the cited prior art.

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. The reference of Parikh et al (U.S. Patent No. 6,175,367) is cited because it shows a method and system for real time illumination of computer generated images.

b. The reference of Lindholm et al (U.S. Patent No. 6,198,488) is cited because it shows a transform, lighting and rasterization system embodied on a single semiconductor platform.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cliff N. Vo whose telephone number is (703) 305-9594. He can normally be reached Monday-Friday and alternate Monday from 8:00am-5:30pm.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Mark Zimmerman, can be reached at (703) 305-9798. The fax phone number for this Group is (703) 305-9724.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3800.

April 6, 2001


CLIFF N. VO
PRIMARY EXAMINER